

PHASING LEGEND

- PHASE 1 LIMITS
- PHASE 2 LIMITS
- PHASE 3 LIMITS
- PHASE 4 LIMITS

LEGEND

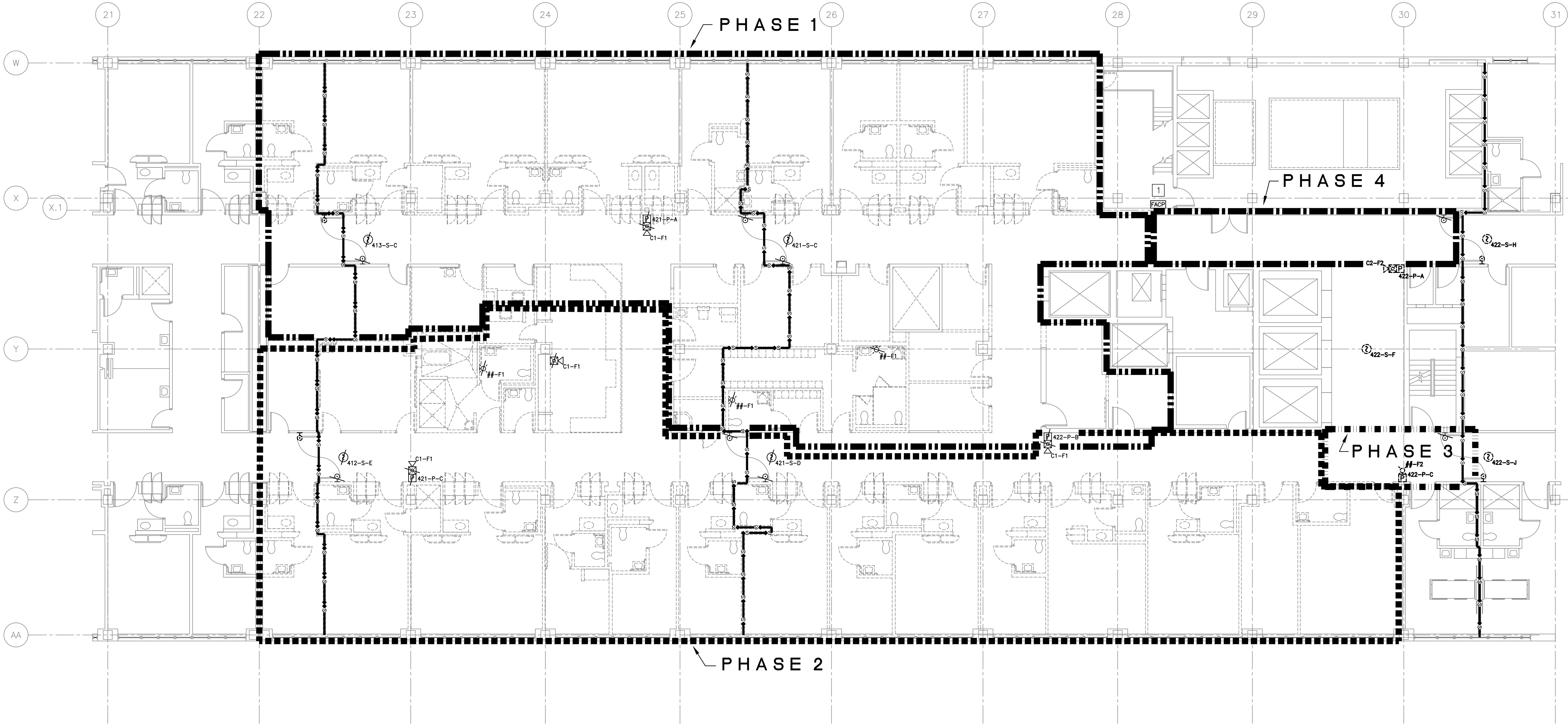
- WALL MOUNTED SPEAKER/STROBE (TO BE DEMOLISHED)
- WALL MOUNTED STROBE (TO BE DEMOLISHED)
- MANUAL PULL STATION (TO BE DEMOLISHED)
- SMOKE DETECTOR (EXISTING TO REMAIN)
- MANUAL PULL STATION (EXISTING TO REMAIN)
- FIRE ALARM SYSTEM SLC DEVICE NAMING
- FIRE ALARM SYSTEM NAC DEVICE NAMING
- DOOR HOLD OPEN (EXISTING TO REMAIN)
- FIRE ALARM CONTROL PANEL
- ONE HOUR FIRE AND SMOKE BARRIER
- TWO HOUR FIRE AND SMOKE BARRIER

GENERAL NOTES

- EXISTING TO REMAIN DEVICES WITHIN THE WORK AREA SHALL BE REMOVED AND REINSTALLED ONCE NEW WALL/CEILING IS INSTALLED, OR PROTECTED DURING CONSTRUCTION. EXISTING TO REMAIN DEVICES MAY BE REUSED OR NEW DEVICES MAY BE PROVIDED.
- DEMOLITION WORK IS TO BE COMPLETED IN PHASES AS INDICATED BY PHASING LIMITS. WHEN FIRE PROTECTION SYSTEMS ARE DISRUPTED, ENSURE PROCEDURES ARE INCORPORATED TO MAINTAIN EQUIVALENT LEVELS OF FIRE PROTECTION AND PROVIDE FORMAL NOTIFICATION TO THE FACILITY WHEN SYSTEMS ARE DOWN.

SHEET NOTES

- 1 FACP 2552 SERVES ALL FIRE ALARM DEVICES WITHIN THE WORK AREA.










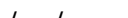
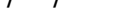
FOURTH FLOOR PLAN - AREA 4C - FIRE ALARM DEMOLITION PLAN  
SCALE: 1/8"=1'-0"

Revisions:		Date:		CONSULTANTS:				ARCHITECT/ENGINEERS:		Drawing Title		Project Title		Project Number		<div>Office of Construction and Facilities Management</div> <div>Department of Veterans Affairs</div>			
								McEntire Design ARCHITECTS		FOURTH FLOOR PLAN - AREA 4C - FIRE ALARM DEMOLITION PLAN		IMPROVE PATIENT PRIVACY AREA 4C		652-13-103					
								1001 WEST WASHINGTON STREET SUFFOLK VIRGINIA 23434 phone 757-923-9800 fax 757-923-9830		Approved Project Director		1201 BROAD ROCK BLVD., RICHMOND VA 23249		Building Number 500					
												Date DECEMBER 16, 2014		Checked AJW				Drawn HDS	
																		Dwg. 23 of 64	

## PHASING LEGEND

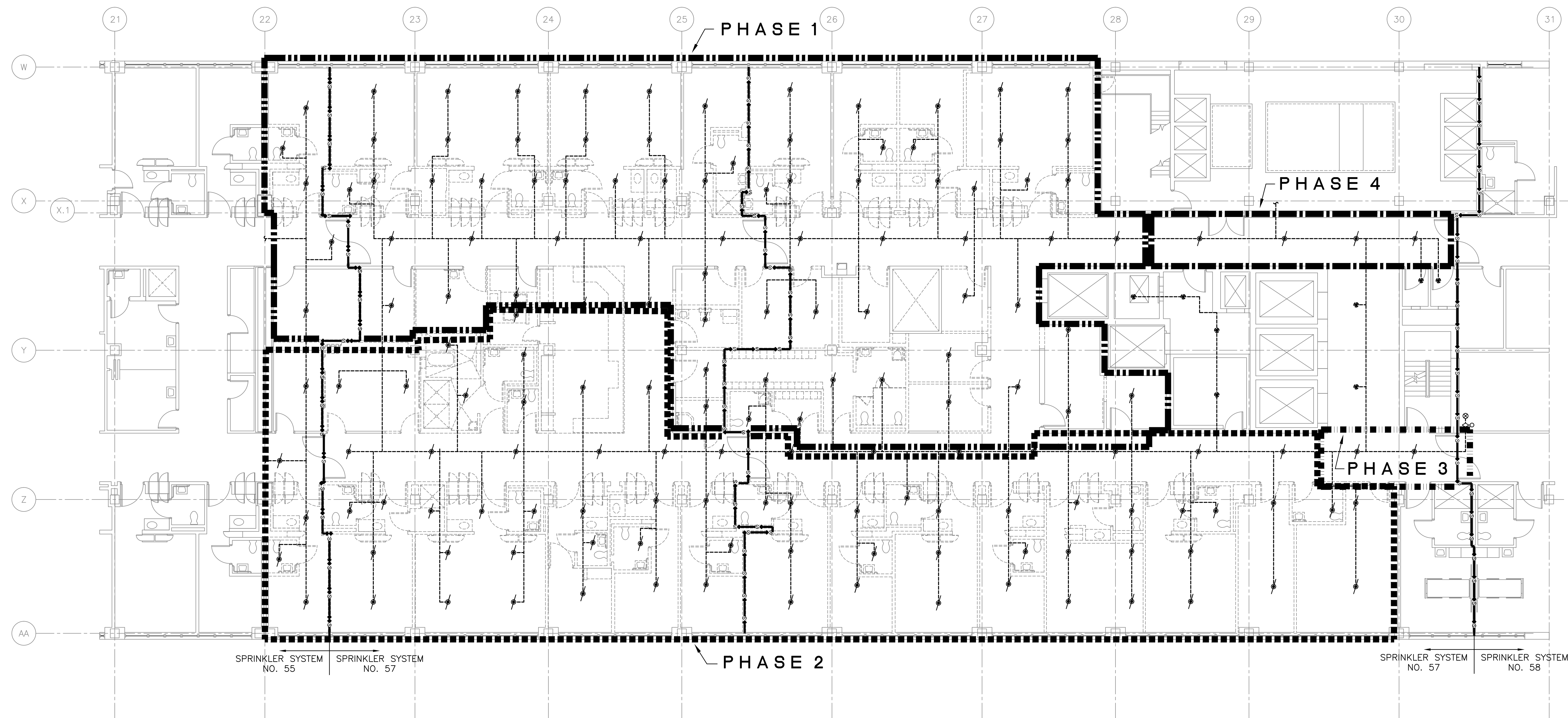
- 
- Figure 1 is a schematic representation of the four phases of the study. It consists of four horizontal rows, each representing a phase. Each row is divided into two main sections: a left section with a series of vertical bars (some solid black, some white with black outlines) and a right section with text. The phases are labeled as follows:
- PHASE 1 LIMITS:** The left section contains 10 vertical bars, alternating between solid black and white with black outlines.
  - PHASE 2 LIMITS:** The left section contains 10 vertical bars, all solid black.
  - PHASE 3 LIMITS:** The left section contains 10 vertical bars, alternating between solid black and white with black outlines.
  - PHASE 4 LIMITS:** The left section contains 10 vertical bars, all solid black.

## LEGEND

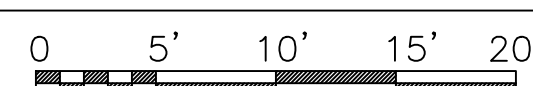
- |   |   |
|---|---|
|  | RECESSED PENDANT SPRINKLER (EXISTING TO REMAIN) |
|  | RECESSED PENDANT SPRINKLER (TO BE DEMOLISHED)   |
|  | SPRINKLER PIPE (EXISTING)                       |
|  | SPRINKLER PIPE (TO BE DEMOLISHED)               |
|  | UPRIGHT SPRINKLER                               |
|  | RISER   |
|  | WATERFLOW SWITCH                                |
|  | ONE HOUR FIRE AND SMOKE BARRIER                 |
|  | TWO HOUR FIRE AND SMOKE BARRIER                 |




## GENERAL NOTES

1. DEMOLISH EXISTING SPRINKLERS. RECONFIGURE EXISTING PIPING TO SERVE NEW SPRINKLER LAYOUT.
2. DEMOLITION WORK IS TO BE COMPLETED IN PHASES AS INDICATED BY PHASING LIMITS. WHEN FIRE PROTECTION SYSTEMS ARE DISRUPTED, ENSURE PROCEDURES ARE INCORPORATED TO MAINTAIN EQUIVALENT LEVELS OF FIRE PROTECTION AND PROVIDE FORMAL NOTIFICATION TO THE FACILITY WHEN SYSTEMS ARE DOWN.



**FOURTH FLOOR PLAN - AREA 4C - FIRE SUPPRESSION DEMOLITION PLAN**  
SCALE: 1/8"=1'-0"



		CONSULTANTS:				ARCHITECT/ENGINEERS:		Drawing Title		Project Title		Project Number		Office of Construction and Facilities Management	
						  1001 WEST WASHINGTON STREET SUFFOLK - VIRGINIA 23434 phone 757-923-9800 fax 757-923-9830		FOURTH FLOOR PLAN - AREA 4C - FIRE SUPPRESSION DEMOLITION PLAN		IMPROVE PATIENT PRIVACY AREA 4C		652-13-103			
										Approved Project Director		Location 1201 BROAD ROCK BLVD., RICHMOND VA 23249			
										Date DECEMBER 16, 2014		Checked A/JW		Drawn HDS	
Revisions:		Date										500-F-002		Dwg. 24 of 64	
														 Department of Veterans Affairs	

GENERAL SCOPE - MODIFY EXISTING FIRE ALARM SYSTEM AS INDICATED DUE TO RENOVATION AND RECONFIGURATION IN WORK AREAS. COORDINATE FIRE ALARM INSTALLATION AND DEMOLITION WITH PHASING PLAN PER SHEET 500-91-003.

- |          |  |
|----------|--|
| VA       | DEPARTMENT OF VETERANS AFFAIRS (VA) FIRE PROTECTION DESIGN MANUAL, SIXTH EDITION, ISSUED SEPTEMBER 2011. |
| NFPA 72  | NATIONAL FIRE ALARM CODE, 2010 EDITION.  |
| NFPA 70  | NATIONAL ELECTRIC CODE, 2011 EDITION.  |
| NFPA 101 | LIFE SAFETY CODE, 2009 EDITION.  |

- NOTIFICATION: PROVIDE PRIVATE MODE STAFF RESPONSE EVACUATION OF THE ZONE OF ALARM ORIGIN ONLY IN ACCORDANCE WITH NFPA 72 AND VA.

AUDIBLE SIGNAL SHALL CONFORM TO ANSI S3.41 AUDIBLE EMERGENCY EVACUATION SIGNAL (I.E., TEMPORAL THREE PATTERN) [VA 7.3.F.2].

SOUND PRESSURE LEVEL FROM AUDIBLE ALARM APPLIANCES SHALL NOT EXCEED 110 DBA IN ANY OCCUPIED AREA [NFPA 72 7.4.1.2]. AND SHALL BE DESIGNED TO REINITIATE MODE OPERATING REQUIREMENTS.

- ALL CIRCUIT WIRING SHALL BE CLASS B.

- ALL WIRING, CABLES, BOXES, TROUGHS AND OTHER RELATED EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (NEC).

- PERFORM TESTING IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND NFPA 72.

- PROVIDE EQUIPMENT MATERIALS, INSTALLATION, WORKMANSHIP, INSPECTION, AND TESTING IN STRICT ACCORDANCE WITH THE REQUIRED AND ADVISORY PROVISIONS OF NFPA 72, ISO 7240-16, IEC 60268-16, EXCEPT AS MODIFIED HEREIN. THE SYSTEM LAYOUT ON THE DRAWINGS SHOWS THE INTENT OF COVERAGE AND DEVICE/APPLIANCES ARE SHOWN IN SUGGESTED LOCATIONS. SUBMIT SHOP DRAWINGS SHOWING DEVICE LOCATIONS, TERMINAL CABINET LOCATIONS, JUNCTION BOXES, OTHER RELATED EQUIPMENT, CONDUIT ROUTING, WIRE COUNTS, CIRCUIT IDENTIFICATION IN EACH CONDUIT, AND CIRCUIT LAYOUTS FOR ALL FLOORS. DRAWINGS SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 170. FINAL QUALITY, SYSTEM LAYOUT, AND COORDINATION ARE THE RESPONSIBILITY OF THE CONTRACTOR.

1. MINIMIZE DISRUPTIONS TO FIRE ALARM SYSTEMS. IF FIRE ALARM SYSTEM ARE TO BE DISRUPTED, ENSURE PROCEDURES ARE INCORPORATED TO MAINTAIN EQUIVALENT LEVELS OF FIRE PROTECTION AND PROVIDE FORMAL NOTIFICATION TO THE FACILITY WHILE SYSTEMS ARE DOWN.
2. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL PARTS, MATERIALS AND PROGRAMMING TO MAINTAIN SYSTEM OPERABILITY.
3. NEW DEVICES INSTALLED BUT NOT YET IN SERVICE SHALL BE TAGGED "NOT IN SERVICE." UPON ACCEPTANCE OF NEW FIRE ALARM SYSTEM TAGS SHALL BE REMOVED.
4. ANY EXISTING SYSTEM DEVICES TAKEN OUT OF SERVICE SHALL BE TAGGED "NOT IN SERVICE."
5. UNUSED DEVICES, WIRE AND CONDUIT SHALL BE DEMOLISHED. REPAIR ANY SURFACES DAMAGED BY FIRE ALARM DEMOLITION.
6. EXISTING WIRE AND CONDUIT MAY BE REUSED.

### FIRE ALARM INPUT-OUTPUT MATRIX

FA-001

1

VA FORM 08-6231



PHASING LEGEND

- PHASE 1 LIMITS
- PHASE 2 LIMITS
- PHASE 3 LIMITS
- PHASE 4 LIMITS

LEGEND

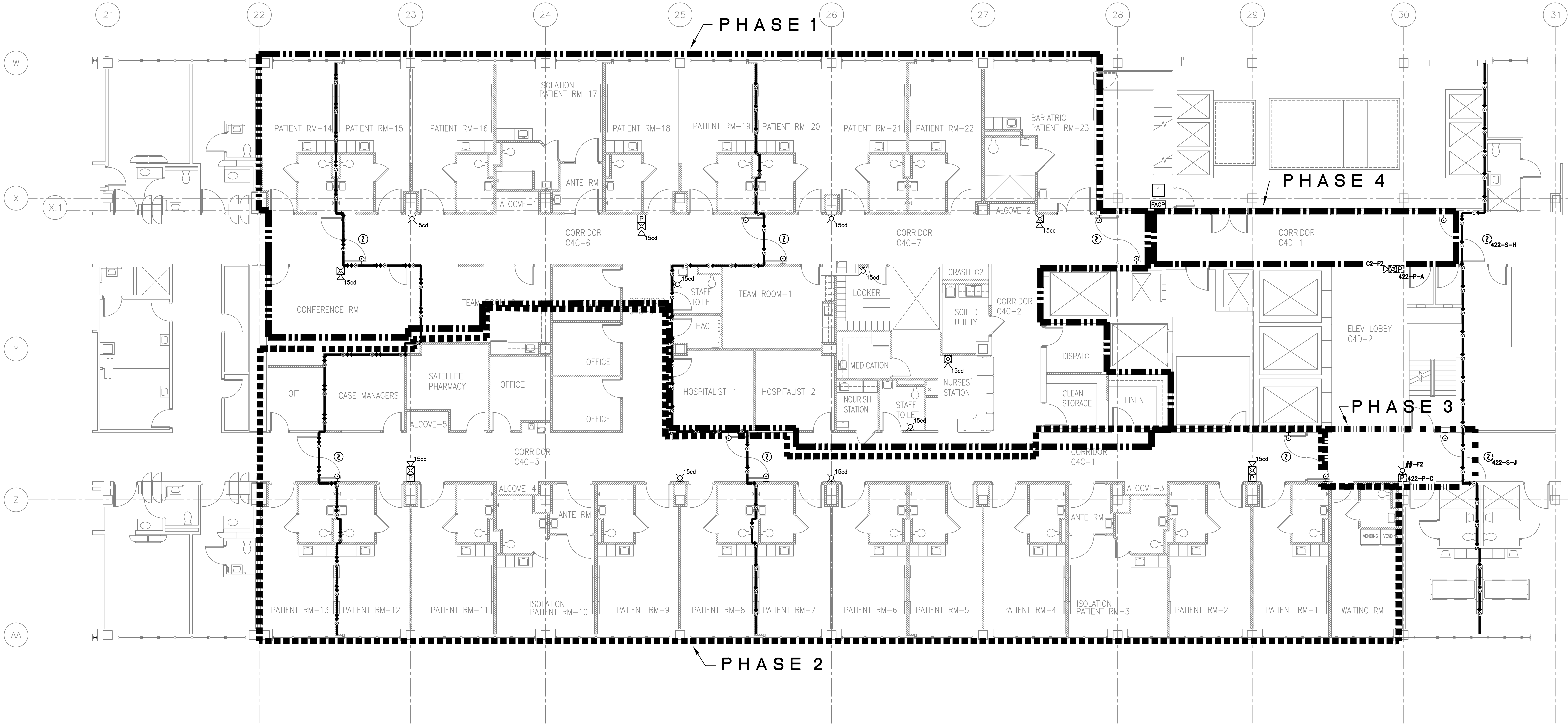
- WALL MOUNTED SPEAKER/STROBE
- WALL MOUNTED STROBE
- MANUAL PULL STATION
- SMOKE DETECTOR
- DOOR HOLD OPEN
- ONE HOUR FIRE AND SMOKE BARRIER
- TWO HOUR FIRE AND SMOKE BARRIER
- SMOKE DETECTOR (EXISTING TO REMAIN)
- MANUAL PULL STATION (EXISTING TO REMAIN)
- FIRE ALARM SYSTEM SLC DEVICE NAMING
- FIRE ALARM SYSTEM NAC DEVICE NAMING
- DOOR HOLD OPEN (EXISTING TO REMAIN)
- FIRE ALARM CONTROL PANEL

GENERAL NOTES

- EXISTING TO REMAIN DEVICES WITHIN THE WORK AREA SHALL BE REMOVED AND REINSTALLED ONCE NEW WALL/CEILING IS INSTALLED, OR PROTECTED DURING CONSTRUCTION. EXISTING TO REMAIN DEVICES MAY BE REUSED OR NEW DEVICES MAY BE PROVIDED.
- PROVIDE SMOKE DETECTORS BOTH SIDES OF CORRIDOR SMOKE BARRIER DOORS.
- NEW WORK IS TO BE COMPLETED IN PHASES AS INDICATED BY PHASING LIMITS. WHEN FIRE PROTECTION SYSTEMS ARE DISRUPTED, ENSURE PROCEDURES ARE INCORPORATED TO MAINTAIN EQUIVALENT LEVELS OF FIRE PROTECTION AND PROVIDE FORMAL NOTIFICATION TO THE FACILITY WHEN SYSTEMS ARE DOWN.

SHEET NOTES

- 1 FACP 2552 SERVES ALL FIRE ALARM DEVICES WITHIN THE WORK AREA.



FOURTH FLOOR PLAN - AREA 4C - FIRE ALARM PLAN  
SCALE: 1/8"=1'-0"

<div>Revisions</div> <table><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></table>									CONSULTANTS:	<div>COMMONWEALTH OF VIRGINIA</div> <div>AUSON WAKELIN</div> <div>12-16-14</div> <div>PROFESSIONAL ENGINEER</div>	ARCHITECT/ENGINEERS:	Drawing Title	Project Title		Project Number		<div>Office of Construction and Facilities Management</div> <div>Department of Veterans Affairs</div>
		McEntire Design ARCHITECTS	FOURTH FLOOR PLAN - AREA 4C - FIRE ALARM PLAN	IMPROVE PATIENT PRIVACY AREA 4C		652-13-103											
		1001 WEST WASHINGTON STREET SUFFOLK VIRGINIA 23434 phone 757-923-9800 fax 757-923-9830	Approved Project Director	1201 BROAD ROCK BLVD., RICHMOND VA 23249		Building Number 500											
				Date DECEMBER 16, 2014	Checked AJW	Drawn HDS	Drawing Number 500-FA101										

FIRE SPRINKLER GENERAL NOTES

GENERAL SCOPE – ALTER EXISTING WET PIPE SPRINKLER PROTECTION THROUGHOUT THE WORK AREA IN ACCORDANCE WITH APPLICABLE CODES LISTED BELOW AND AS INDICATED ON CONTRACT DRAWINGS.

1. APPLICABLE CODES:



- VA

DEPARTMENT OF VETERANS AFFAIRS FIRE PROTECTION DESIGN MANUAL, SIXTH EDITION, ISSUED SEPTEMBER 2011.
- NFPA 13

INSTALLATION OF SPRINKLER SYSTEMS, 2013 EDITION.
- NFPA 101

LIFE SAFETY CODE, 2012 EDITION.






2. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION. IF A CONFLICT OCCURS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
3. WET PIPE SPRINKLER PIPE SHALL BE U.L. LISTED BLACK STEEL, MINIMUM SCHEDULE 40. FOR ALL PIPE DIAMETERS EXCEPT WHERE A WATER QUALITY EVALUATION HAS BEEN DONE PERTAINING TO CORROSION. IF THE WATER QUALITY PERMITS, SCHEDULE 10 STEEL PIPING MAY BE USED FOR PIPE DIAMETERS NOMINALLY GREATER THAN 2 INCHES.
4. ALL AREAS ARE LIGHT HAZARD UNLESS OTHERWISE INDICATED ON CONTRACT DRAWINGS.
5. QUICK RESPONSE SPRINKLERS SHALL BE UTILIZED THROUGHOUT [VA 6.1.J].
6. PERFORM TESTING IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND NFPA 13.
7. PROVIDE SIX SPARE SPRINKLERS OF EACH TYPE USED AND SPARE SPRINKLER CABINET AND REQUIRED WRENCHES. INSTALL IN APPROVED LOCATION.
8. IDENTIFICATION SIGNS SHALL BE PROVIDED ON CEILINGS OR AREAS WHERE SPRINKLER CONTROL VALVES, SECTIONAL VALVES, INSPECTOR TEST VALVES, TAMPER VALVES, AND ALL OTHER RELATED SPRINKLER COMPONENTS ARE CONCEALED FROM VIEW.
9. THESE DRAWINGS DEMONSTRATE THE CONFIGURATION OF MAJOR SYSTEM COMPONENTS. THEY ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO SHOW EXACT LOCATIONS. PIPE LENGTHS AND ELEVATIONS INDICATED ON THE DRAWINGS (IF SHOWN) ARE APPROXIMATE. COORDINATE FINAL INSTALLATION WITH ACTUAL FIELD CONDITIONS AND OTHER CONSTRUCTION TRADES.
10. RUN SPRINKLER PIPING TIGHT TO THE CEILING.

		CONSULTANTS:			ARCHITECT/ENGINEERS:		Drawing Title FIRE SUPPRESSION GENERAL NOTES		Project Title IMPROVE PATIENT PRIVACY AREA 4C		Project Number 652-13-103		<div>Office of Construction and Facilities Management</div> <div> Department of Veterans Affairs</div>		
					<div>McEntire Design ARCHITECTS</div> <div>1001 WEST WASHINGTON STREET SUFFOLK VIRGINIA 23434 phone 757-923-9800 fax 757-923-9830</div>		Approved Project Director		Location 1201 BROAD ROCK BLVD., RICHMOND VA 23249		Building Number 500				
							Date DECEMBER 16, 2014		Checked AJW		Drawn HDS			Drawing Number 500-FX001	
														Dwg. 27 of 64	
Revisions:		Date													

## PHASING LEGEND

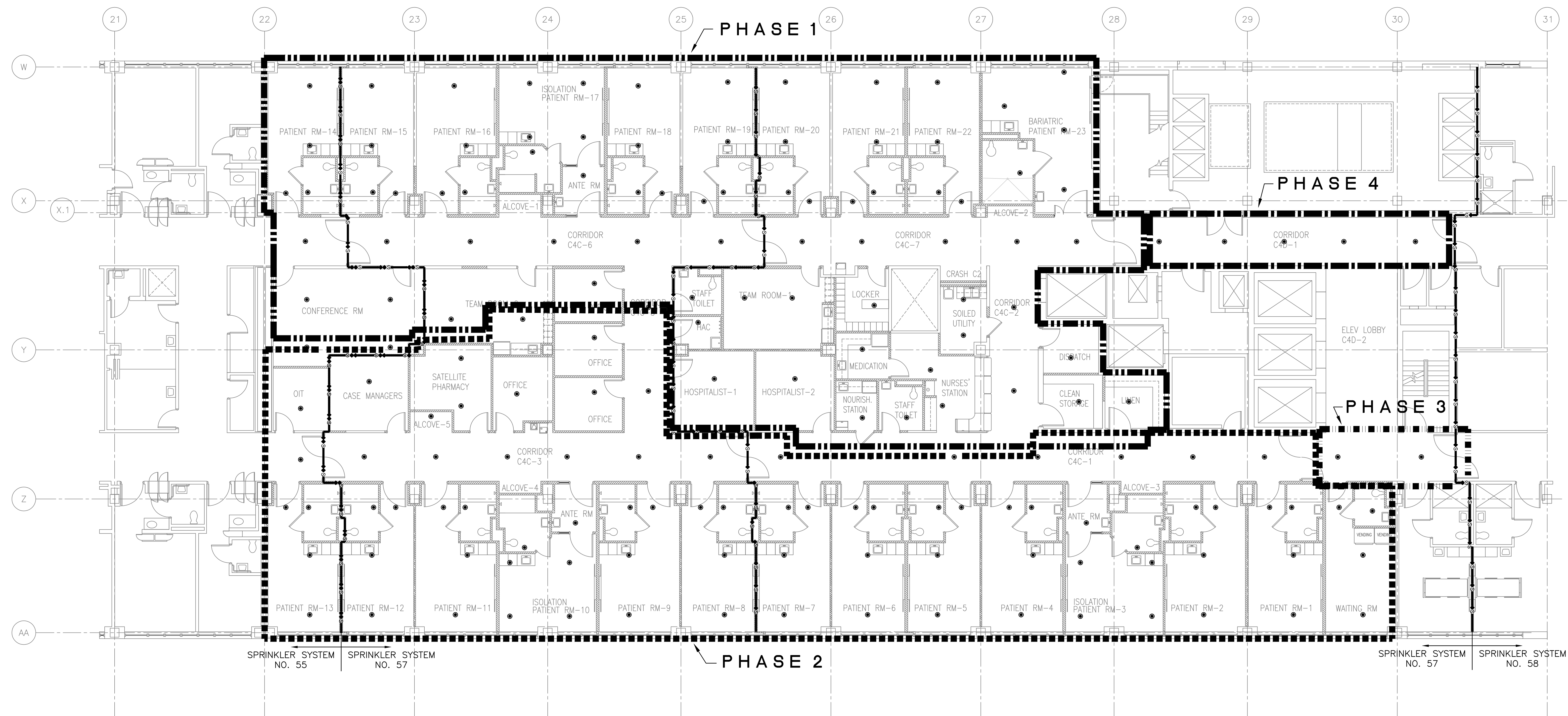
- 
- Figure 1 is a schematic representation of the four phases of the study. It consists of four horizontal rows, each representing a phase. Each row is divided into two main sections: a sequence of vertical bars on the left and a text label on the right. The vertical bars are of two types: solid black bars and white bars with black outlines. The sequence of bars for each phase is as follows: Phase 1: 10 trials, starting with 5 solid black bars followed by 5 white bars. Phase 2: 10 trials, starting with 5 solid black bars followed by 5 white bars. Phase 3: 10 trials, starting with 5 solid black bars followed by 5 white bars. Phase 4: 10 trials, starting with 5 solid black bars followed by 5 white bars. The text labels on the right are: PHASE 1 LIMITS, PHASE 2 LIMITS, PHASE 3 LIMITS, and PHASE 4 LIMITS.

## LEGEND



- |   |                                 |
|---|---------------------------------|
|  | NEW UPRIGHT SPRINKLER           |
|  | NEW STANDARD PENDANT SPRINKLER  |
|  | NEW SPRINKLER PIPE              |
|  | ONE HOUR FIRE AND SMOKE BARRIER |
|  | TWO HOUR FIRE AND SMOKE BARRIER |

## GENERAL NOTES

1. SPRINKLER SYSTEMS SHALL BE SEPARATED BY FIRE AND SMOKE BARRIERS.
2. NEW WORK IS TO BE COMPLETED IN PHASES AS INDICATED BY PHASING LIMITS. WHEN FIRE PROTECTION SYSTEMS ARE DISRUPTED, ENSURE PROCEDURES ARE INCORPORATED TO MAINTAIN EQUIVALENT LEVELS OF FIRE PROTECTION AND PROVIDE FORMAL NOTIFICATION TO THE FACILITY WHEN SYSTEMS ARE DOWN.



**FOURTH FLOOR PLAN - AREA 4C - FIRE SUPPRESSION PLAN**  
SCALE: 1/8"=1'-0"

		CONSULTANTS:				ARCHITECT/ENGINEERS:		Drawing Title		Project Title		Project Number		Office of Construction and Facilities Management					
						<div>McEntire Design ARCHITECTS</div> <div>1001 WEST WASHINGTON STREET SUFFOLK VIRGINIA 23434 phone 757-923-9800 fax 757-923-9830</div>		FOURTH FLOOR PLAN - AREA 4C - FIRE SUPPRESSION PLAN		IMPROVE PATIENT PRIVACY AREA 4C		652-13-103							
								Approved Project Director		Location		Building Number		500-FX101					
										1201 BROAD ROCK BLVD., RICHMOND VA 23249		500							
Revisions:		Date								Drawing Number		Date		Checked		Drawn		Dwg. 28 of 64	
												DECEMBER 16, 2014		AJW		HDS		 Department of Veterans Affairs	